

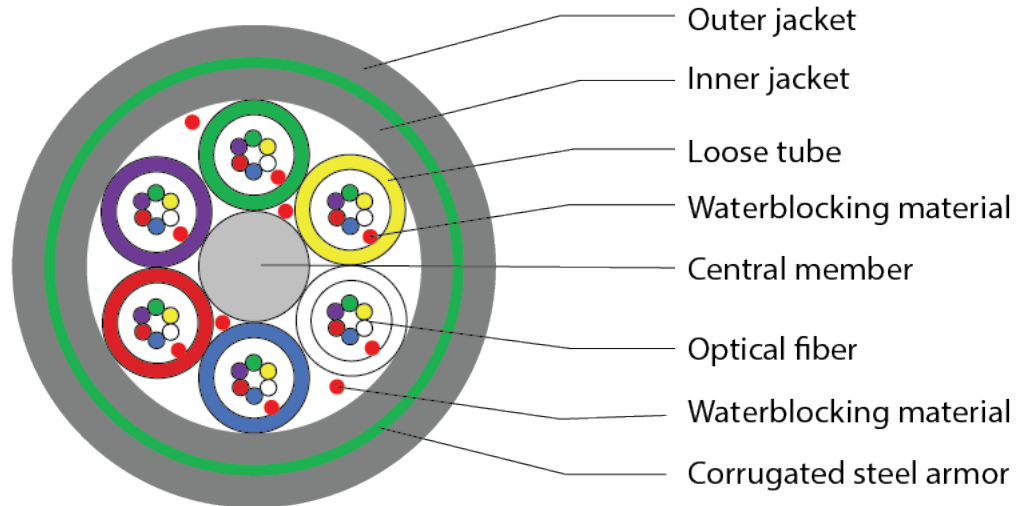


OPTICAL CABLE CFOA-ARE TS (ABNT CL), TOTALLY DRY, DIRECTLY BURIED WITH METALLIC RODENT PROTECTION

Construction	Metallic anti rodent protection	
	Jelly filled/dry core	
	Loose tubes	
	SM and NZD	
Description	Cable consisting of singlemode optical fiber and/or multimode optical fiber with acrylate coating. The tubes containing optical fibers is filled with thixotropic loose tube filling compound to ensure the optical fiber protection. The stranded tubes can be dry (containing waterblocking elements) or jelly filled (jelly filling compound) in order to prevent water penetration. The stranded tubes are surrounded and sheathed with black polyethylene. Over the inner sheath it is applied longitudinally a corrugated steel armour covered with an external jacket of black polyethylene.	
Application	Condition of Installation	External / outdoor
	Condition of Operation	Underground directly buried
Optical Fiber	Composed of optical fibers coated with UV acrylate coating which may be of SM (singlemode)	
Optical Characteristics	According to Annex A (ET2000)	
Fiber and Loose Tube Identification	Optical Fiber/Loose Tube	Color
	01	Green
	02	Yellow
	03	White
	04	Blue
	05	Red
	06	Violet
	07	Brown
	08	Pink
	09	Black
	10	Gray
	11	Orange
	12	Acqua
Central Member	Non-metallic material.	
Core	The tubes are stranded together to form the cable core. The core shall be protected with water blocking material (totally dry core) to prevent water penetration. If necessary, filler rods may be applied to maintain a cylindrical core.	

Inner Jacket	Sheath of thermoplastic polyethylene. It shall contain a rip-cord under the sheath.
Minimal Rodent Protection Thickness	Corrugated steel armor.
Outer Jacket	Over the corrugated steel armour it is applied a jacket of black thermoplastic polyethylene. A rip-cord is placed under the outer jacket.

Cross Section



Physical Characteristics

Maximum Load of Installation (N)	Compression Load (N)	Minimum bend Radius (mm)	
		During installation	After installation
1000	2200	20 x Cable O.D	10 x Cable O.D

Installation Temperature	-10 °C a 50 °C
Storage Temperature	-20 °C a 65 °C
Operation Temperature	-20 °C a 65 °C

Dimension

Fiber count	Quantity of fibers per tube	Cable OD (mm) (±1.0 mm)	Nominal Cable weight (kg/km)	Thickness of outer jacket (mm)
2 a 12	2	13.0	165	1.4
18 a 36	6	13.6	175	
48 a 72	12	15.0	215	

96	12	16.5	260
120	12	18.5	310
144	12	20.5	365

Marking	<p>FURUKAWA CFOA-SM-ARE-S yF v TS month/year "customer name" LOTE nL (**)</p> <p>where:</p> <p>y = fiber count</p> <p>v = specific denomination for special fibers G-652D (SM G.652.D fiber)</p> <p>month/year = manufacturing date (MM/YYYY)</p> <p>"customer name" = when required at Purchase order</p> <p>certificate number = number of ANATEL certificate/homologation</p> <p>(**) = secuencial length marking in meters, xxxxxx m</p> <p>nL = Lot number</p>
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Package Type	Wooden reel
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Standard Length	4000m
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Observations	Remaining characteristics in accordance with ABNT NBR 15110
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[Codification](#)